## WHAT IS CLAIMED IS

5

10

15

1. An image processing apparatus for changing the size of image data of an original image, comprising:

a comparison part comparing an image information value which indicates predetermined image information of the original image, with a corresponding predetermined reference value which is previously set for each of the predetermined image information; and

a sharing-ratio determining part which, based on a comparison result of said comparison part, determines a sharing ratio in processing for changing

the size of the image data between a first processing way and a second processing way different from said first processing way.

- 2. The image processing apparatus as claimed in claim 1, wherein:
- said first processing way comprises a way for

achieving a high-order image processing for controlling image degradation.

5

3. The image processing apparatus as claimed in claim 1, wherein:

said second processing way comprises a way of simply changing the number of pixels without changing the respective pixel values.

15

20

25

4. The image processing apparatus as claimed in claim 1, wherein:

said sharing-ratio determining part adjusts
the sharing ratio in the processing between the first
and second processing ways so that the entire process of
a predetermined image size-change processing is
completed within a given time duration when a required
processing time which is taken for performing the entire
processing of the predetermined image size-change
processing exceeds the given time duration.

5. The image processing apparatus as claimed in claim 1, wherein:

said comparison part compares an image data size-change rate required with a predetermined reference value instead of comparing the predetermined image information value of the original image.

10

15

6. The image processing apparatus as claimed in claim 1, wherein:

the information of the image information value and predetermined reference value which said comparison part compares comprises information concerning the data size of the original image.

20

25

7. The image processing apparatus as claimed in claim 1, wherein:

the information of the image information value and predetermined reference value which said comparison part compares comprises information concerning the

number of colors expressible by each pixel of the original image.

5

8. The image processing apparatus as claimed in claim 1, wherein:

the information of the image information value and predetermined reference value which said comparison part compares comprises information concerning the resolution of the original image.

15

9. The image processing apparatus as claimed in claim 1, wherein:

the information of the image information value and predetermined reference value which said comparison part compares comprises information as to whether or not the original image is a color image or a monochrome image.

10. The image processing apparatus as claimed in claim 1, wherein:

the sharing ratio between the first and second processing ways is determined according to a

5 predetermined attribute of the original image.

11. The image processing apparatus as claimed in claim 1, wherein:

the sharing ratio between the first and second processing ways is determined according to a permissible time duration for completing the entire process of a relevant image size-change processing.

12. The image processing apparatus as claimed in claim 1, wherein:

said first processing way comprises a process for preventing a jaggy from becoming conspicuous.

13. The image processing apparatus as claimed in claim 10, wherein:

the predetermined attribute of the original image which is used for determining the sharing ratio by said sharing-ratio determining part comprises the number of used colors in the original image.

10

15

14. The image processing apparatus as claimed in claim 1, wherein:

the sharing ratio between the first and second processing ways is determined by said sharing-ratio determining part according to the contents of image processing in the entire process of a relevant image size-change processing.

20

25

15. The image processing apparatus as claimed in claim 1, wherein an application of the first and second processing ways is made in such a manner that one of the first and second processing way is applied, and,

after that, the other processing way is applied.

5

16. The image processing apparatus as claimed in claim 15, wherein the application of the first and second processing ways is made in such a manner that one of the first and second processing way, which one requires a longer processing time, is applied first, and, after that, the other processing way is applied.

15

20

25

10

in claim 1, wherein an application of the first and second processing ways is made in such a manner that one of a first mode and a second mode is selected according to a comparison result of said comparison part,

wherein said first mode is such that both said first and second processing ways are applied in a combination manner, and said second mode is such that only one of the first and second processing ways is applied.

18. The image processing apparatus as claimed in claim 17, wherein said second mode is such that only one of the first and second processing way, which one requires a longer processing time, is applied.

5

15

25

19. The image processing apparatus as claimed 10 in claim 1, wherein:

said first processing way comprises an image size-change processing for an integer size-change rate, and said second processing way comprises an image size-change processing for a size-change rate which includes a fraction.

20. An image processing method for changing the size of image data of an original image, comprising:

a comparison step comparing an image information value which indicates predetermined image information of the original image, with a corresponding predetermined reference value which is previously set

for each of the predetermined image information; and
a sharing-ratio determining step, based on a
comparison result of said comparison part, determining a
sharing ratio in processing for changing the size of the
image data between a first processing way and a second
processing way different from said first processing way.

10

5

21. The image processing method as claimed in claim 20, wherein:

said first processing way comprises a way for achieving a high-order image processing for controlling image degradation.

22. The image processing method as claimed in claim 20, wherein:

said second processing way comprises a way of simply changing the number of pixels without changing the respective pixel values.

said sharing-ratio determining step comprises the step of adjusting the sharing ratio in the

- processing between the first and second processing ways so that the entire process of a predetermined image size-change processing is completed within a given time duration when a required processing time which is taken for performing the entire processing of the
- 10 predetermined image size-change processing exceeds the given time duration..

15

24. The image processing method as claimed in claim 20, wherein:

in said comparison step, an image data sizechange ratio required is compared with a predetermined
reference value instead of comparing the predetermined
image information value of the original image.

the information of the image information value and predetermined reference value which is applied in said comparison step for comparison comprises information concerning the data size of the original image.

10

26. The image processing method as claimed in claim 20, wherein:

the information of the image information value

15 and predetermined reference value which is applied in

said comparison part for comparison comprises

information concerning the number of colors expressible

by each pixel of the original image.

- 27. The image processing method as claimed in claim 20, wherein:
- 25 the information of the image information value

and predetermined reference value which is applied in said comparison part for comparison comprises information concerning the resolution of the original image.

5

15

28. The image processing method as claimed in claim 20, wherein:

the information of the image information value and predetermined reference value which is applied in said comparison part for comparison comprises information as to whether or not the original image is a color image or a monochrome image.

29. The image processing method as claimed in claim 20, wherein:

the sharing ratio between the first and second processing ways is determined according to a predetermined attribute of the original image.

the sharing ratio between the first and second processing ways is determined according to a permissible time duration for completing the entire process of a relevant image size-change processing.

10

5

31. The image processing method as claimed in claim 20, wherein:

said first processing way comprises a process for preventing a jaggy from becoming conspicuous.

15

32. The image processing method claimed in claim 29, wherein:

the predetermined attribute of the original image which is used for determining the sharing ratio in said sharing-ratio determining step comprises the number of used colors in the original image.

the sharing ratio between the first and second processing ways is determined in said sharing-ratio determining step according to the contents of image processing in the entire process of a relevant image size-change processing.

10

15

5

34. The image processing method as claimed in claim 20, wherein an application of the first and second processing ways is made in such a manner that one of the first and second processing way is applied, and, after that, the other processing way is applied.

20

25

35. The image processing method as claimed in claim 34, wherein the application of the first and second processing ways is made in such a manner that one of the first and second processing way, which one requires a longer processing time, is applied, and,

after that, the other processing way is applied.

5

The image processing method as claimed in 36. claim 20, wherein an application of the first and second processing ways is made in such a manner that one of a first mode and a second mode is selected according to a comparison result of said comparison part,

10

wherein said first mode is such that both said first and second processing ways are applied in a combination manner, and said second mode is such that only one of the first and second processing ways is applied.

20

15

The image processing method as claimed in 37. claim 36, wherein said second mode is such that only one of the first and second processing way, which one requires a longer processing time, is applied.

said first processing way comprises an image size-change processing for an integer size-change rate, and said second processing way comprises an image size-change processing for a size-change rate which includes a fraction.

10

5

39. A program for causing a computer to execute each step of the method claimed in claim 20.

15

40. A program for causing a computer to execute each step of the method claimed in claim 21.

20

41. A program for causing a computer to execute each step of the method claimed in claim 22.

	42	. A	prog	gram	for	caı	sing	a	comp	puter	to	
execute	each	step	of	the	meth	od	clain	ned	in	claim	ι 23	} .

5

43. A program for causing a computer to execute each step of the method claimed in claim 24.

10

44. A program for causing a computer to execute each step of the method claimed in claim 25.

15

45. A program for causing a computer to execute each step of the method claimed in claim 26.

25

46. A program for causing a computer to

execute each step of the method claimed in claim 27.

5

47. A program for causing a computer to execute each step of the method claimed in claim 28.

10

48. A program for causing a computer to execute each step of the method claimed in claim 29.

15

49. A program for causing a computer to execute each step of the method claimed in claim 30.

20

50. A program for causing a computer to execute each step of the method claimed in claim 31.

	51	. A 1	pro	gram	for	cai	ısing	a	comp	puter	to	
execute	each	step	of	the	metho	od	claim	ned	in	claim	32	

5

52. A program for causing a computer to execute each step of the method claimed in claim 33.

10

53. A program for causing a computer to execute each step of the method claimed in claim 34.

15

54. A program for causing a computer to execute each step of the method claimed in claim 35.

25

55. A program for causing a computer to

execute each step of the method claimed in claim 36.

5

56. A program for causing a computer to execute each step of the method claimed in claim 37.

10

57. A program for causing a computer to execute each step of the method claimed in claim 38.